

Colorado Department of Public Health and Environment

OPERATING PERMIT

INDUSTRIAL INSULATION GROUP

FIRST ISSUED: DECEMBER 1, 1999

RENEWED: APRIL 1, 2008

AIR POLLUTION CONTROL DIVISION COLORADO OPERATING PERMIT

980PME196

FACILITY NAME: Industrial Insulation OPERATING PERMIT NUMBER

Group

FACILITY ID: 0770023

ISSUE DATE: April 1, 2008 EXPIRATION DATE: April 1, 2013

MODIFICATIONS: See Appendix F of Permit

Issued in accordance with the provisions of the Colorado Air Pollution Prevention and Control Act, 25-7-101 et seq. and applicable rules and regulations.

ISSUED TO: PLANT SITE LOCATION:

Industrial Insulation Group, L.L.C. 1110 16 Road

2100 Line Street Fruita, Colorado 81521

Brunswick, GA 31520 Mesa County

INFORMATION RELIED UPON

Operating Permit Application Received: July 9, 2003

And Additional Information Received:

Nature of Business: Calcium Silicate Insulation and Fire-Proofing Board Manufacturer

Primary SIC: 3299

RESPONSIBLE OFFICIAL FACILITY CONTACT PERSON

Name: Joe Hicks Name: Ralph Powers

Title: Plant Manager Title: Quality/Env Control Mgr

Phone: (970) 858-6202 Phone: (970) 858-6244

SUBMITTAL DEADLINES

Semi-Annual Monitoring Period: December 1 - May 31, June 1 - November 30

Semi-Annual Monitoring Report: July 1, 2008 & January 1, 2009 and subsequent years

Annual Compliance Period: Begins December 1 to November 30 Annual Compliance Certification: January 1, 2009 and subsequent years

Note that the Semi-Annual Monitoring reports and the Annual Compliance report must be received at the Division office by 5:00 p.m. on the due date. Postmarked dates will not be accepted for the purposes of determining the timely receipt of those reports.

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SECTION I - General Activities and Summary

1. Permitted Activities

1.1 This facility manufactures calcium silicate insulation pipe (CalSil) and fire-proofing board (Xonotlite) defined under Standard Industrial Classification 3299. CalSil operations consist of transportation of raw materials, cement and lime loading and storage, bulk diatomaceous earth loading and grinding and powdered diatomaceous earth loading. The raw materials are then mixed, heated using steam and transferred to molds. The molds are then cured in steam heated indurators and dried in natural gas-fired ovens. The pipes are then cut, wrapped and packaged for shipping. Xonotlite operations consist of transportation of raw materials; lime, silica, cement and bentonite are loaded and stored. Various raw materials are combined, mixed and held in tanks. A high pressure press mold is used to press into sheets. The sheets are dried in steam heated ovens, cut and trimmed by saws and sanded. The product are then wrapped and packaged for shipping.

The facility is located in the town of Fruita in Mesa County. The area in which the plant operates is designated as attainment for all criteria pollutants.

Utah is an affected state within 50 miles of the plant. The following Federal Class I designated area is within 100 kilometers of the plant: Arches National Park.

- 1.2 Until such time as this permit expires or is modified or revoked, the permittee is allowed to discharge air pollutants from this facility in accordance with the requirements, limitations, and conditions of this permit.
- 1.3 This Operating Permit incorporates the applicable requirements contained in the underlying construction permits, and does not affect those applicable requirements, except as modified during review of the application or as modified subsequent to permit issuance using the modification procedures found in Regulation No. 3, Part C. These Part C procedures meet all applicable substantive New Source Review requirements of Part B. Any revisions made using the provisions of Regulation No. 3, Part C shall become new applicable requirements for purposes of this operating permit and shall survive reissuance. This Operating Permit incorporates the applicable requirements (except as noted in Section II) from the following Colorado Construction Permit(s): 11ME358-(1-6), 13ME486, 85ME018, 85ME369 and 98ME0190-98ME0194.
- 1.4 All conditions in this permit are enforceable by US Environmental Protection Agency, Colorado Air Pollution Control Division (hereinafter Division) and its agents, and citizens unless otherwise specified. **State-only enforceable conditions are:**

Permit Condition Number(s): Section IV - Conditions 3g, 14 and 18 (as noted).

1.5 All information gathered pursuant to the requirements of this permit is subject to the Recordkeeping and

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Reporting requirements listed under Condition 22 of the General Conditions in Section IV of this permit, unless otherwise specified.

2. Alternative Operating Scenarios

- 2.1 The permittee shall be allowed to make the following changes to its method of operation without applying for a revision of this permit.
 - 2.1.1 No separate operating scenarios have been specified.

3. Prevention Of Significant Deterioration (PSD)

3.1 This facility is located in an area designated attainment for all pollutants. Based on the information provided by the applicant, it is not categorized as a major stationary source (no single criteria pollutant emissions with a Potential to Emit of greater than 250 TPY as of the issue date of this permit. The source therefore is not subject to the PSD review requirements of 40 CFR 52.21 (Colorado Regulation No. 3, Part B, Section IV.D.3).

Future modifications to this facility which are major by itself will result in the application of the PSD review requirements. In addition, future modifications at this facility may result in the facility being classified as a major stationary source. Once that threshold is exceeded, future modifications at this facility resulting in a significant net emissions increase (see Reg 3, Part A, Section I.B.37 and 58) for any pollutant as listed in Regulation No. 3, Part A, Section I.B.58 or a modification which is major by itself may result in the application of the PSD review requirements.

3.2 There are no other Operating Permits associated with this facility for purposes of determining applicability of Prevention of Significant Deterioration regulations.

4. Accidental Release Prevention Program (112(r))

4.1 Based on the information provided by the applicant, this facility is not subject to the provisions of the Accidental Release Prevention Program (Section 112(r) of the Federal Clean Air Act).

5. Compliance Assurance Monitoring (CAM)

5.1 The following emission points at this facility use a control device to achieve compliance with an emission limitation or standard to which they are subject and have pre-control emissions that exceed or are equivalent to the major source threshold. They are therefore subject to the provisions of the CAM program as set forth in 40 CFR Part 64, as adopted by reference in Colorado Regulation No. 3, Part C, Section XIV:

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None

6. Summary of Emission Units

6.1 The emissions units regulated by this permit are the following:

Emission	AIRS	Facility	Description	Pollution Control
Unit Number	Stack Number	Identifier		Device
EP001	001	B-1	Babcock and Wilcox FM Natural Gas-Fired Boiler, Maximum Rated At 93.5 MMBtu/hr, SN: 10188B (1987).	Uncontrolled
EP002- EP005	002-005	O-1 - O-4	Four (4) Midland Ross Natural Gas-Fired Ovens, Maximum Rated at 15.5 MMBtu/hr Each, SN's: Unknown (1977).	Uncontrolled
EP006	006	CS-1	CalSil Trimmers and Slitters, 500-7 Mod III Baghouse Controlled (1977).	500-7 Mod III Baghouse
EP008	008	CS-2	Diatomaceous Earth Crushing Area, Wet Collection System Controlled (1982).	Wet Collection System
EP009	009	FB-1	Xonotlite Trimmers, Sanders and Mix Tank Area, MKRO-Pulsaire Model 221510-20 Baghouse Controlled (1987).	MKRO-Pulsaire Model 221510-20 Baghouse
EP010	010	F-1	Custom Made Natural Gas-Fired High Temperature Test Furnace, Maximum Rated at 6.0 MMBtu/hr, SN: Unknown (1986).	Uncontrolled
EP011	011	CS-3	CalSil Batch Mixer # 1, Baghouse Controlled (1982).	Baghouse
EP012	012	F-2	Custom Made Fuel Oil # 1-Fired High Temperature Test Furnace, Maximum Rated at 22.0 MMBtu/hr, SN: Unknown (1996).	Uncontrolled
EP016	016	NA	Five Silos, Baghouse Controlled	Baghouse

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SECTION II - Specific Permit Terms

1. EP001 - Natural Gas Fired Boiler (93.5 MMBtu/hr)

Parameter	Permit Condition	Limit	ations	Compliance Emission	Monitoring	
	Number	Short Term	Long Term	Factor	Method	Interval
PM	1.1	NA	5.73 tons/year	14.0 lb/MMscf	Recordkeeping	Annually
PM10		NA	5.73 tons/year	14.0 lb/MMscf	and Calculation	
NOx		NA	57.33 tons/year	140.0 lb/MMscf		
СО		NA	34.4 tons/year	84.0 lb/MMscf		
Fuel Use	1.2	NA	819 MMscf/year	NA	Recordkeeping	Monthly
PM	1.3	Less Than or Equal to 0.15 lb/MMBtu		NA	Fuel Restriction	Annually
Opacity	1.4	Less Than or	Equal to 20%	NA	Fuel Restriction	Annually

1.1 Emissions of air pollutants shall not exceed the limitations stated above (Construction Permit 11ME358-3 as modified under Section I, Condition 1.3). Compliance with throughput limit in Condition 1.2 below shall demonstrate compliance with the emission limit. Annual emissions shall be calculated using the equation below for APEN purposes.

Emissions (tons/yr) = EF (lb/MMscf) x Throughput (MMscf/yr) x 1/2000 (ton/lb)

- 1.2 The consumption of natural gas by the boiler shall not exceed the limitation above (Construction Permit 11ME358-3). Consumption shall be measured and recorded each month. A twelve month rolling total shall be maintained for demonstration of compliance with the annual limitations. Each month a new twelve month total shall be calculated using the previous twelve months data.
- 1.3 Particulate emissions shall not exceed 0.15 lb/MMBtu as calculated from the equation $PE = 0.5(FI)^{-0.26} = lb/MMtu$, where FI = Fuel Input in MMBtu/hr (Regulation No. 1, Section III.A.1.b.). In the absence of credible

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evidence to the contrary, compliance with the 0.15 lb/MMBtu particulate emission standard shall be presumed whenever natural gas is used as fuel for this boiler.

- 1.4 Opacity of emissions during normal operation shall not exceed 20% (Regulation No. 1, Section II.A.1.). In the absence of credible evidence to the contrary, compliance with the 20% opacity limit shall be presumed whenever natural gas is used as fuel for this boiler.
- 1.5 This boiler shall be operated and maintained in accordance with manufacturer's recommendations and good engineering practices at all times, including periods of start-up, shutdown, and malfunction.

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2. EP002-EP005 - Four (4) Natural Gas Fired Ovens (15.5 MMBtu/hr each)

Parameter	Permit Condition	for ea	itations ach oven	Compliance Emission	Monitoring		
	Number	Short Term	Long Term	Factor	Method	Interval	
PM	2.1	NA	4.70 tons/year	0.25 lb/ton 14.0 lb/MMscf	Recordkeeping and	Monthly	
PM10		NA	4.70 tons/year	0.25 lb/ton 14.0 lb/MMscf	Calculation		
NOx		NA	9.51 tons/year	140.0 lb/MMscf			
СО		NA	5.7 tons/year	84.0 lb/MMscf			
Drying of Calcium Silicate panels	2.2	NA	30,000 tons/year	NA	Recordkeeping	Monthly	
Fuel Use	2.3	NA	135.8 MMscf/year	NA	Recordkeeping	Monthly	
PM	2.4	Less Than or Equal to 0.25 lb/MMBtu		NA	Fuel Restriction	Annually	
Opacity	2.5	Less Than o	or Equal to 20%	NA	Fuel Restriction	Annually	

2.1 Emissions of air pollutants for each oven shall not exceed the limitations stated above (Construction Permits 11ME358-(4-7)as modified under Section I, Condition 1.3). Compliance with throughput limit in Condition 2.2 below shall demonstrate compliance with the emission limits. Annual emissions for each oven shall be calculated using the equations below for APEN purposes.

Emissions (tons/yr) = EF (lb/MMscf) x Throughput (MMscf/yr) x 1/2000 (ton/lb)

Emissions (tons/yr) = EF (lb/Ton) x Amount Dried (Tons/yr) x 1/2000 (ton/lb)

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- 2.2 The drying of calcium silicate insulation panels shall not exceed the limitations above (Construction Permits 11ME358-(4-7)). Throughput shall be measured and recorded each month. A twelve month rolling total shall be maintained for demonstration of compliance with the annual limitations. Each month a new twelve month total shall be calculated using the previous twelve months data.
- 2.3 The consumption of natural gas by each oven shall not exceed the limitation above (Construction Permits 11ME358-(4-7)). Consumption shall be measured and recorded each month. A twelve month rolling total shall be maintained for demonstration of compliance with the annual limitations. Each month a new twelve month total shall be calculated using the previous twelve months data.
- 2.4 Particulate emissions for each oven shall not exceed 0.25 lb/MMBtu as calculated from the equation PE $= 0.5(FI)^{-0.26} = lb/MMBtu$, where FI = Fuel Input in MMBtu/hr (Regulation No. 1, Section III.A.1.b.). In the absence of credible evidence to the contrary, compliance with the 0.25 lb/MMBtu particulate emission standard shall be presumed whenever natural gas is used as fuel for these ovens.
- 2.5 Opacity of emissions for each oven during normal operation shall not exceed 20% (Regulation No. 1, Section II.A.1.). In the absence of credible evidence to the contrary, compliance with the 20% opacity limit shall be presumed whenever natural gas is used as fuel for these ovens.
- 2.6 These ovens shall be operated and maintained in accordance with manufacturer's recommendations and good engineering practices at all times, including periods of start-up, shutdown, and malfunction.

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3. EP006 - CalSil Trimmers and Slitters, Baghouse Controlled

Parameter	Permit Condition	Lim	itations	Compliance Emission	Monitor	toring	
	Number	Short Term	Long Term	Factor	Method	Interval	
PM	3.1	7.70 lbs/hr	0.45 tons/year	0.03 lbs/ton	Recordkeeping,	Monthly,	
PM10		NA	0.45 tons/year	0.03 lbs/ton	Calculation and Baghouse Maintenance	Daily	
Processing	3.2	NA	30,000 tons/year	NA	Recordkeeping	Monthly	
Opacity	3.3	Less Than o	or Equal to 20%	NA	EPA Reference Method 9	Semi- Annually	

- 3.1 Emissions of PM and PM10 shall not exceed the limitations stated above (Construction Permit 11ME358-1). Particulate Matter emissions shall not exceed 7.70 lbs/hr as calculated from the equation PE = $3.59(P)^{0.62} = lbs/hr$, where P = Process Weight Rate in tons per hour (Regulation No. 1, Section III.C.1.a). Compliance with the hourly limits will be assumed if Conditions 3.1.1 and 3.1.2 below are met. Compliance with the annual emission limitations shall be assumed if the following conditions are met and the processing rates do not exceed the listed limitations (Condition 3.2).
 - 3.1.1 Routine maintenance and operation of the baghouse shall be conducted in accordance with manufacturer's specifications and good engineering practices. These specifications shall be in written format, and shall be made available to the Division upon request. A visual observation of each stack shall be conducted daily to document any fluctuations in performance and for prioritization of preventive maintenance activities. Should visible emissions, other than steam, be observed, the source shall follow the steps in 3.1.1.1. through 3.1.1.3. and record in a log the opacity observations and any action taken as a result of the observations. Should the baghouse pressure drop be observed outside the manufacturer's recommendations, the source shall follow the steps in 3.1.1.1, 3.1.1.4., and 3.1.1.5.
 - 3.1.1.1. Verify that the process and control equipment are operating properly.
 - 3.1.1.2. Perform any maintenance or adjustments needed to minimize visible emissions and ensure that the process and control equipment are operating properly.
 - 3.1.1.3. If visible emissions continue to occur, EPA Reference Method 9 observations

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shall be conducted to monitor compliance with the twenty percent (20%) opacity standard. Subject to the provisions of C.R.S. 25-7-123.1 and in the absence of credible evidence to the contrary, exceedance of the limit shall be considered to exist from the time a Method 9 reading is taken that shows an exceedance of the opacity limit until a Method 9 reading is taken that shows the opacity is less than the opacity limit.

- 3.1.1.4. Perform any maintenance or adjustments needed on the baghouse.
- 3.1.1.5. If the baghouse pressure drop remains outside of manufacturer's specifications, the baghouse shall be internally inspected for bag integrity and overall mechanical efficiency. Powdered dye test shall be performed if the baghouse pressure drop is below the lower pressure drop set point as specified by the manufacturer. Necessary repairs shall be made prior to bringing the equipment back on line. Any action taken as a result of baghouse pressure drop shall be recorded in a daily log.
- 3.1.2 The baghouses shall be internally inspected for bag integrity and overall mechanical efficiency annually. Powdered dye tests shall be performed as necessary to identify faulty bags. Necessary repairs shall be made prior to bringing the equipment back on line. An adequate inventory of replacement bags and parts shall be maintained on site.
- 3.1.3 The emission factors listed shall be used to calculate emissions annually.
- 3.2 The processing of calcium silicate insulation panels shall not exceed the limitations above (Construction Permit 11ME358-1). Processing rates shall be measured and recorded each month. A twelve month rolling total shall be maintained for demonstration of compliance with the annual limitations. Each month a new twelve month total shall be calculated using the previous twelve months data.
- 3.3 Opacity of emissions shall not exceed 20% (Construction Permit 11ME358-1). EPA Reference Method 9 observations shall be conducted semi-annually during full production to monitor compliance with the opacity standard. The opacity observations shall be performed by an observer with current and valid Method 9 certification. Copies of all observations shall be kept on site and made available to the Division upon request.
- 3.4 This equipment shall be operated and maintained in accordance with manufacturer's recommendations and good engineering practices at all times, including periods of start-up, shutdown, and malfunction.

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4. EP008 - Diatomaceous Earth Crushing Area, Wet Collection System Controlled

Parameter	Permit Condition	Limitations		Compliance Emission	Monitor	
	Number	Short Term	Long Term	Factor	Method	Interval
PM	4.1	10.9 lbs/hr	2.52 tons/year	0.144 lb/ton	Recordkeeping,	Monthly,
PM10		NA	1.63 tons/year	0.093 lb/ton	Calculation and Control Equipment Maintenance	Daily
Processing	4.2	NA	35,000 tons/year	NA	Recordkeeping	Monthly
Opacity	4.3	Less Than o	or Equal to 20%	NA	EPA Reference Method 9	Semi- Annually

- 4.1 Emissions of PM and PM10 shall not exceed the limitations stated above (Construction Permit 13ME486). Particulate Matter emissions shall not exceed 10.9 lbs/hr as calculated from the equation PE = $3.59(P)^{0.62} = lbs/hr$, where P = Process Weight Rate in tons per hour (Regulation No. 1, Section III.C.1.a). Compliance with the hourly limits will be assumed if Condition 4.1.1 below is met. Compliance with the annual emission limitations shall be assumed if the following conditions are met and the processing rates do not exceed the listed limitations (Condition 4.2).
 - 4.1.1 Routine maintenance and operation of the collection system shall be conducted in accordance with manufacturer's specifications and good engineering practices. These specifications shall be in written format, and shall be made available to the Division upon request. A visual observation of each stack shall be conducted daily to document any fluctuations in performance and for prioritization of preventive maintenance activities. Should visible emissions, other than steam, be observed, the source shall follow the steps in 4.1.1.1. through 4.1.1.3. and record in a log the opacity observations and any action taken as a result of the observations. Should the pressure drop be observed outside the manufacturer's recommendations, the source shall follow the steps in 4.1.1.1, 4.1.1.4., and 4.1.1.5.
 - 4.1.1.1. Verify that the process and control equipment are operating properly.
 - 4.1.1.2. Perform any maintenance or adjustments needed to minimize visible emissions and ensure that the process and control equipment are operating properly.

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- 4.1.1.3. If visible emissions continue to occur, EPA Reference Method 9 observations shall be conducted to monitor compliance with the twenty percent (20%) opacity standard. Subject to the provisions of C.R.S. 25-7-123.1 and in the absence of credible evidence to the contrary, exceedance of the limit shall be considered to exist from the time a Method 9 reading is taken that shows an exceedance of the opacity limit until a Method 9 reading is taken that shows the opacity is less than the opacity limit.
- 4.1.1.4. Perform any maintenance or adjustments needed on the wet collection system.
- 4.1.1.5. If the pressure drop remains outside of manufacturer's specifications, the wet collection system should inspected for integrity (leaks, clogged filter, etc.). Necessary repairs shall be made prior to bringing the equipment back on line. Any action taken as a result of pressure drop shall be recorded in a daily log.
- 4.1.2 The emission factors listed shall be used to calculate emissions annually.
- 4.2 The processing of diatomaceous earth shall not exceed the limitations above (Construction Permit 13ME486). Processing rates shall be measured and recorded each month. A twelve month rolling total shall be maintained for demonstration of compliance with the annual limitations. Each month a new twelve month total shall be calculated using the previous twelve months data.
- 4.3 Opacity of emissions shall not exceed 20% (Construction Permit 13ME486). EPA Reference Method 9 observations shall be conducted semi-annually during full production to monitor compliance with the opacity standard. The opacity observations shall be performed by an observer with current and valid Method 9 certification. Copies of all observations shall be kept on site and made available to the Division upon request.
- 4.4 This equipment shall be operated and maintained in accordance with manufacturer's recommendations and good engineering practices at all times, including periods of start-up, shutdown, and malfunction.

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5. EP009 - Xonotlite Trimmers, Sanders and Mix Tank Area, Baghouse Controlled

Parameter	Permit Condition	Lim	itations	Compliance Emission	Monitor	nitoring	
	Number	Short Term	Long Term	Factor	Method	Interval	
PM	5.1	5.51 lbs/hr	0.17 tons/year	0.019 lb/ton	Recordkeeping,	Monthly,	
PM10		NA	0.17 tons/year	0.019 lb/ton	Calculation and Baghouse Maintenance	Daily	
Processing	5.2	NA	17,500 tons/year	NA	Recordkeeping	Monthly	
Opacity	5.3	Less Than o	or Equal to 20%	NA	EPA Reference Method 9	Semi- Annually	

- 5.1 Emissions of PM and PM10 shall not exceed the limitations stated above (Construction Permit 85ME018). Particulate Matter emissions shall not exceed 5.51 lbs/hr as calculated from the equation PE = $3.59(P)^{0.62} = lbs/hr$, where P = Process Weight Rate in tons per hour (Regulation No. 1, Section III.C.1.a). Compliance with the hourly limits will be assumed if Conditions 5.1.1 and 5.1.2 below are met. Compliance with the annual emission limitations shall be assumed if the following conditions are met and the processing rates do not exceed the listed limitations (Condition 5.2).
 - 5.1.1 Routine maintenance and operation of the baghouse shall be conducted in accordance with manufacturer's specifications and good engineering practices. These specifications shall be in written format, and shall be made available to the Division upon request. A visual observation of each stack shall be conducted daily to document any fluctuations in performance and for prioritization of preventive maintenance activities. Should visible emissions, other than steam, be observed, the source shall follow the steps in 5.1.1.1. through 5.1.1.3. and record in a log the opacity observations and any action taken as a result of the observations. Should the baghouse pressure drop be observed outside the manufacturer's recommendations, the source shall follow the steps in 5.1.1.1, 5.1.1.4., and 5.1.1.5.
 - 5.1.1.1. Verify that the process and control equipment are operating properly.
 - 5.1.1.2. Perform any maintenance or adjustments needed to minimize visible emissions and ensure that the process and control equipment are operating properly.
 - 5.1.1.3. If visible emissions continue to occur, EPA Reference Method 9 observations

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shall be conducted to monitor compliance with the twenty percent (20%) opacity standard. Subject to the provisions of C.R.S. 25-7-123.1 and in the absence of credible evidence to the contrary, exceedance of the limit shall be considered to exist from the time a Method 9 reading is taken that shows an exceedance of the opacity limit until a Method 9 reading is taken that shows the opacity is less than the opacity limit.

- 5.1.1.4. Perform any maintenance or adjustments needed on the baghouse.
- 5.1.1.5. If the baghouse pressure drop remains outside of manufacturer's specifications, the baghouse shall be internally inspected for bag integrity and overall mechanical efficiency. Powdered dye test shall be performed if the baghouse pressure drop is below the lower pressure drop set point as specified by the manufacturer. Necessary repairs shall be made prior to bringing the equipment back on line. Any action taken as a result of baghouse pressure drop shall be recorded in a daily log.
- 5.1.2 The baghouses shall be internally inspected for bag integrity and overall mechanical efficiency annually. Powdered dye tests shall be performed as necessary to identify faulty bags. Necessary repairs shall be made prior to bringing the equipment back on line. An adequate inventory of replacement bags and parts shall be maintained on site.
- 5.1.3 The emission factors listed shall be used to calculate emissions annually.
- 5.2 The processing of insulation panels shall not exceed the limitations above (Construction Permit 85ME018). Processing rates shall be measured and recorded each month. A twelve month rolling total shall be maintained for demonstration of compliance with the annual limitations. Each month a new twelve month total shall be calculated using the previous twelve months data.
- 5.3 Opacity of emissions shall not exceed 20% (Construction Permit 85ME018). EPA Reference Method 9 observations shall be conducted semi-annually during full production to monitor compliance with the opacity standard. The opacity observations shall be performed by an observer with current and valid Method 9 certification. Copies of all observations shall be kept on site and made available to the Division upon request.
- 5.4 This equipment shall be operated and maintained in accordance with manufacturer's recommendations and good engineering practices at all times, including periods of start-up, shutdown, and malfunction.

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6. EP010 - Natural Gas Fired High Temperature Test Furnace (6.0 MMBtu/hr)

Parameter	Permit Condition	Lim	Limitations		Monitoring	
	Number	Short Term	Long Term	Emission Factor	Method	Interval
PM	6.1	NA	2.41 tons/year	20.0 lb/ton 11.9 lb/MMscf	Recordkeeping and	Monthly
NOx		NA	2.63 tons/year	100.0 lb/MMscf	Calculation	
Testing of calcium Silicate panels	6.2	NA	210.0 tons/year	NA	Recordkeeping	Monthly
Fuel Use	6.3	NA	52.56 MMscf/year	NA	Recordkeeping	Monthly
PM	6.4	Less Than or Equal to 0.31 lb/MMBtu		NA	Fuel Restriction	Annually
Opacity	6.5	Less Than o	r Equal to 20%	NA	Fuel Restriction	Annually

6.1 Emissions of air pollutants shall not exceed the limitations stated above (Construction Permit 85ME369). Compliance with throughput limit in Condition 6.2 below shall demonstrate compliance with the emission limit. Annual emissions shall be calculated using the equations below for APEN purposes.

Emissions (tons/yr) = EF (lb/MMscf) x Throughput (MMscf/yr) x 1/2000 (ton/lb)

Emissions (tons/yr) = EF (lb/Ton) x Processing Rate (Ton/yr) x 1/2000 (ton/lb)

- 6.2 The processing of calcium silicate insulation panels through the furnace shall not exceed the limitation above (Construction Permit 85ME369). Throughput shall be measured and recorded each month. A twelve month rolling total shall be maintained for demonstration of compliance with the annual limitations. Each month a new twelve month total shall be calculated using the previous twelve months data.
- 6.3 The consumption of natural gas by the furnace shall not exceed the limitation above (Construction

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Permit 85ME369). Consumption shall be measured and recorded each month. A twelve month rolling total shall be maintained for demonstration of compliance with the annual limitations. Each month a new twelve month total shall be calculated using the previous twelve months data.

- Particulate emissions shall not exceed 0.31 lb/MMBtu as calculated from the equation $PE = 0.5(FI)^{-0.26} = lb/MMBtu$, where FI = Fuel Input in MMBtu/hr (Regulation No. 1, Section III.A.1.b.). In the absence of credible evidence to the contrary, compliance with the 0.31 lb/MMBtu particulate emission standard shall be presumed whenever natural gas is used as fuel for this furnace.
- 6.5 Opacity of emissions for each oven during normal operation shall not exceed 20% (Regulation No. 1, Section II.A.1.). In the absence of credible evidence to the contrary, compliance with the 20% opacity limit shall be presumed whenever natural gas is used as fuel for this furnace.
- 6.6 This furnace shall be operated and maintained in accordance with manufacturer's recommendations and good engineering practices at all times, including periods of start-up, shutdown, and malfunction.

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7. EP011 - CalSil Batch Mixer # 1, Baghouse Controlled

Parameter	Permit Condition	Lim	itations	Compliance Emission	Monitor	Monitoring	
	Number	Short Term	Long Term	Factor	Method	Interval	
PM	7.1	7.70 lbs/hr	0.15 tons/year	0.01 lb/ton	Recordkeeping,	Monthly,	
PM10		NA	0.15 tons/year	0.01 lb/ton	Calculation and Baghouse Maintenance	Daily	
Material Usage	7.2	NA	30,000 tons/year	NA	Recordkeeping	Monthly	
Opacity	7.3	Less Than o	or Equal to 20%	NA	EPA Reference Method 9	Semi- Annually	

- 7.1 Emissions of PM and PM10 shall not exceed the limitations stated above (Construction Permit 98ME0190). Particulate Matter emissions shall not exceed 7.70 lbs/hr as calculated from the equation PE = $3.59(P)^{0.62} = lbs/hr$, where P = Process Weight Rate in tons per hour (Regulation No. 1, Section III.C.1.a). Compliance with the hourly limits will be assumed if Conditions 7.1.1 and 7.1.2 below are met. Compliance with the annual emission limitations shall be assumed if the following conditions are met and the processing rates do not exceed the listed limitations (Condition 7.2).
 - 7.1.1 Routine maintenance and operation of the baghouse shall be conducted in accordance with manufacturer's specifications and good engineering practices. These specifications shall be in written format, and shall be made available to the Division upon request. A visual observation of each stack shall be conducted daily to document any fluctuations in performance and for prioritization of preventive maintenance activities. Should visible emissions, other than steam, be observed, the source shall follow the steps in 7.1.1.1. through 7.1.1.3. and record in a log the opacity observations and any action taken as a result of the observations. Should the baghouse pressure drop be observed outside the manufacturer's recommendations, the source shall follow the steps in 7.1.1.1, 7.1.1.4., and 7.1.1.5.
 - 7.1.1.1. Verify that the process and control equipment are operating properly.
 - 7.1.1.2. Perform any maintenance or adjustments needed to minimize visible emissions and ensure that the process and control equipment are operating properly.
 - 7.1.1.3. If visible emissions continue to occur, EPA Reference Method 9 observations

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shall be conducted to monitor compliance with the twenty percent (20%) opacity standard. Subject to the provisions of C.R.S. 25-7-123.1 and in the absence of credible evidence to the contrary, exceedance of the limit shall be considered to exist from the time a Method 9 reading is taken that shows an exceedance of the opacity limit until a Method 9 reading is taken that shows the opacity is less than the opacity limit.

- 7.1.1.4. Perform any maintenance or adjustments needed on the baghouse.
- 7.1.1.5. If the baghouse pressure drop remains outside of manufacturer's specifications, the baghouse shall be internally inspected for bag integrity and overall mechanical efficiency. Powdered dye test shall be performed if the baghouse pressure drop is below the lower pressure drop set point as specified by the manufacturer. Necessary repairs shall be made prior to bringing the equipment back on line. Any action taken as a result of baghouse pressure drop shall be recorded in a daily log.
- 7.1.2 The baghouses shall be internally inspected for bag integrity and overall mechanical efficiency annually. Powdered dye tests shall be performed as necessary to identify faulty bags. Necessary repairs shall be made prior to bringing the equipment back on line. An adequate inventory of replacement bags and parts shall be maintained on site.
- 7.1.3 The emission factors listed shall be used to calculate emissions annually.
- 7.2 The mixing of raw materials shall not exceed the limitations above (Construction Permit 98ME0190). Processing rates shall be measured and recorded each month. A twelve month rolling total shall be maintained for demonstration of compliance with the annual limitations. Each month a new twelve month total shall be calculated using the previous twelve months data.
- 7.3 Opacity of emissions shall not exceed 20% (Construction Permit 98ME0190). EPA Reference Method 9 observations shall be conducted semi-annually during full production to monitor compliance with the opacity standard. The opacity observations shall be performed by an observer with current and valid Method 9 certification. Copies of all observations shall be kept on site and made available to the Division upon request.
- 7.4 This equipment shall be operated and maintained in accordance with manufacturer's recommendations and good engineering practices at all times, including periods of start-up, shutdown, and malfunction.

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8. EP012 - Fuel Oil Fired High Temperature Test Furnace (22.0 MMBtu/hr)

Parameter	Permit Condition	Limitations		Compliance Emission	Monitoring	
	Number	Short Term	Long Term	Factor	Method	Interval
PM	8.1	NA	2.13 tons/year	20.0 lb/ton 2.0 lb/Mgal	Recordkeeping and Calculation	Monthly
Testing of calcium Silicate panels	8.2	NA	210.0 tons/year	NA	Recordkeeping	Monthly
No. 1 Fuel Oil Consumption	8.3	NA	31,200 gal/year	NA	Recordkeeping	Monthly
PM	8.4	Less Than or Equal to 0.22 lb/MMBtu		NA	Fuel Restriction	Annually
SO2	8.6	Less Than or Equal to 0.8 lb/MMBtu		142(S) lb/Mgal	Fuel Restriction	Annually
Opacity	8.5	Less Than or Equal to 20%		NA	EPA Reference Method 9	Annually

8.1 Emissions of air pollutants shall not exceed the limitations stated above (Construction Permit 98ME0191). Compliance with throughput limit in Condition 1.2 below shall demonstrate compliance with the emission limit. Annual emissions shall be calculated using the equation below for APEN purposes.

Emissions (tons/yr) = EF (lb/Gal) x Throughput (Gal/yr) x 1/2000 (ton/lb)

- 8.2 The testing of calcium silicate panels shall not exceed the limitation above (Construction Permit 98ME0191). Throughput shall be measured and recorded each month. A twelve month rolling total shall be maintained for demonstration of compliance with the annual limitations. Each month a new twelve month total shall be calculated using the previous twelve months data.
- 8.3 The consumption of No. 1 fuel oil through the furnace shall not exceed the limitation above

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(Construction Permit 98ME0191). Consumption shall be measured and recorded each month. A twelve month rolling total shall be maintained for demonstration of compliance with the annual limitations. Each month a new twelve month total shall be calculated using the previous twelve months data.

- 8.4 Particulate emissions shall not exceed 0.22 lb/MMBtu as calculated from the equation $PE = 0.5(FI)^{-0.26} = lb/MMBtu$, where FI = Fuel Input in MMBtu/hr (Regulation No. 1, Section III.A.1.b.). In the absence of credible evidence to the contrary, compliance with the 0.22 lb/MMBtu particulate emission standard shall be presumed whenever fuel oil is used as fuel for this furnace.
- 8.5 Opacity of emissions during normal operation shall not exceed 20% (Regulation No. 1, Section II.A.1.). EPA Reference Method 9 observations shall be conducted annually during full production to determine compliance with the opacity standard. The opacity observations shall be performed by an observer with current and valid Method 9 certification. Copies of all observations shall be kept on site and made available to the Division upon request.
- 8.6 Sulfur Dioxide emissions shall not exceed the limitation above (Regulation No. 1, Section VI.B.4.b(i)). Compliance with the lb/MMBtu limitation shall be monitored using the emission factor listed above where S is the percent sulfur in the fuel. Supply records of each shipment shall show the sulfur content is less than or equal to 0.79 %. Such records shall be kept on site and made available to the Division upon request.
- 8.7 This furnace shall be operated and maintained in accordance with manufacturer's recommendations at all times, including periods of start-up, shutdown, and malfunction.

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9. EP016 - Five (5) Silos, Equipped w/ Dust Collectors

Parameter	Permit Condition	Limitations		Compliance Emission	Monitoring	
	Number	Short Term	Long Term	Factor	Method	Interval
PM	9.1	NA	0.17 tons/yr	0.022 lb/ton throughput	Recordkeeping, Calculation and	Monthly, Daily
PM ₁₀		NA	0.17 tons/yr	0.022 lb/ton throughput	Baghouse Maintenance	
Throughput	9.2	NA	15,000 tons/yr	NA	Recordkeeping	Monthly
Opacity	9.3	Less Than or Equal to 20%		NA	EPA Reference Method 9	Semi- Annually

- 9.1 Emissions of PM and PM_{10} for all silos added together shall not exceed the limitations stated above (Worst Case scenario). Compliance with the annual emission limitations shall be assumed if the following conditions are met and the processing rate does not exceed the listed limitation (Condition 9.2).
 - 9.1.1 Routine maintenance and operation of the baghouse shall be conducted in accordance with manufacturer's specifications and good engineering practices. These specifications shall be in written format, and shall be made available to the Division upon request. A visual observation of each stack shall be conducted daily to document any fluctuations in performance and for prioritization of preventive maintenance activities. Should visible emissions, other than steam, be observed, the source shall follow the steps in 9.1.1.1. through 9.1.1.3. and record in a log the opacity observations and any action taken as a result of the observations. Should the baghouse pressure drop be observed outside the manufacturer's recommendations, the source shall follow the steps in 9.1.1.1, 9.1.1.4., and 9.1.1.5.
 - 9.1.1.1. Verify that the process and control equipment are operating properly.
 - 9.1.1.2. Perform any maintenance or adjustments needed to minimize visible emissions and ensure that the process and control equipment are operating properly.
 - 9.1.1.3. If visible emissions continue to occur, EPA Reference Method 9 observations shall be conducted to monitor compliance with the twenty percent (20%) opacity standard. Subject to the provisions of C.R.S. 25-7-123.1 and in the

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absence of credible evidence to the contrary, exceedance of the limit shall be considered to exist from the time a Method 9 reading is taken that shows an exceedance of the opacity limit until a Method 9 reading is taken that shows the opacity is less than the opacity limit.

- 9.1.1.4. Perform any maintenance or adjustments needed on the baghouses.
- 9.1.1.5. If the baghouse pressure drop remains outside of manufacturer's specifications, the baghouse shall be internally inspected for bag integrity and overall mechanical efficiency. Powdered dye test shall be performed if the baghouse pressure drop is below the lower pressure drop set point as specified by the manufacturer. Necessary repairs shall be made prior to bringing the equipment back on line. Any action taken as a result of baghouse pressure drop shall be recorded in a daily log.
- 9.1.2 The baghouses shall be internally inspected for bag integrity and overall mechanical efficiency annually. Powdered dye tests shall be performed as necessary to identify faulty bags. Necessary repairs shall be made prior to bringing the equipment back on line. An adequate inventory of replacement bags and parts shall be maintained on site.
- 9.1.3 The emission factors listed shall be used to calculate emissions annually.
- 9.2 The total throughput of raw materials into the ten silos shall not exceed the limitations above (Worst case scenario). Throughput shall be measured and recorded for each silo each month. A twelve month rolling total for all silos together shall be maintained for demonstration of compliance with the annual limitation. Each month a new twelve month total shall be calculated using the previous twelve months data.
- 9.3 Opacity of emissions shall not exceed 20% (Regulation No. 1, Section II.A). EPA Reference Method 9 observations shall be conducted semi-annually to monitor compliance with the opacity standard. The opacity observations shall be performed by an observer with current and valid Method 9 certification. Copies of all observations shall be kept on site and made available to the Division upon request.
- 9.4 These silos shall be operated and maintained in accordance with manufacturer's recommendations and good engineering practices at all times, including periods of start-up, shutdown, and malfunction.

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SECTION III - Permit Shield

Regulation No. 3, 5 CCR 1001-5, Part C, §§ I.A.4, V.D. & XIII.B; § 25-7-114.4(3)(a), C.R.S.

1. Specific Non-Applicable Requirements

Based upon the information available to the Division and supplied by the applicant, the following parameters and requirements have been specifically identified as non-applicable to the facility to which this permit has been issued. This shield does not protect the source from any violations that occurred prior to or at the time of permit issuance. In addition, this shield does not protect the source from any violations that occur as a result of any modification or reconstruction on which construction commenced prior to permit issuance:

No regulations were specifically requested for the permit shield.

2. General Conditions

Compliance with this Operating Permit shall be deemed compliance with all applicable requirements specifically identified in the permit and other requirements specifically identified in the permit as not applicable to the source. This permit shield shall not alter or affect the following:

- 2.1 The provisions of §§ 25-7-112 and 25-7-113, C.R.S., or § 303 of the federal act, concerning enforcement in cases of emergency;
- 2.2 The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- 2.3 The applicable requirements of the federal Acid Rain Program, consistent with § 408(a) of the federal act:
- 2.4 The ability of the Air Pollution Control Division to obtain information from a source pursuant to § 25-7-111(2)(I), C.R.S., or the ability of the Administrator to obtain information pursuant to § 114 of the federal act;
- 2.5 The ability of the Air Pollution Control Division to reopen the Operating Permit for cause pursuant to Regulation No. 3, Part C, § XIII.
- 2.6 Sources are not shielded from terms and conditions that become applicable to the source subsequent to permit issuance.

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3. Streamlined Conditions

The following applicable requirements have been subsumed within this operating permit using the pertinent streamlining procedures approved by the U.S. EPA. For purposes of the permit shield, compliance with the listed permit conditions will also serve as a compliance demonstration for purposes of the associated subsumed requirements.

Permit Condition	Streamlined (Subsumed) Requirements
Conditions 6.4, 8.3 and 9.4	Regulation No. 6, Part B, Section II.C.2 [particulate matter standard]
Condition 8.5	Regulation No. 6, Part B, Section II.D.2.a [sulfur dioxide standard]
Conditions 4.1, 5.1, 7.1, 10.1, and 11.1	Regulation No. 6, Part B, Section IIIC.1 [particulate matter standard]

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SECTION IV - General Permit Conditions

1. Administrative Changes

Regulation No. 3, 5 CCR 1001-5, Part A, § III.

The permittee shall submit an application for an administrative permit amendment to the Division for those permit changes that are described in Regulation No. 3, Part A, [] I.B.36.a. The permittee may immediately make the change upon submission of the application to the Division.

2. Certification Requirements

Regulation No. 3, 5 CCR 1001-5, Part C, III III.B.9., V.C.16.a.&e. and V.C.17.

- a. Any application, report, document and compliance certification submitted to the Air Pollution Control Division pursuant to Regulation No. 3 or the Operating Permit shall contain a certification by a responsible official of the truth, accuracy and completeness of such form, report or certification stating that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.
- b. All compliance certifications for terms and conditions in the Operating Permit shall be submitted to the Air Pollution Control Division at least annually unless a more frequent period is specified in the applicable requirement or by the Division in the Operating Permit.
- c. Compliance certifications shall contain:
 - (i) the identification of each permit term and condition that is the basis of the certification;
 - (ii) the compliance status of the source;
 - (iii) whether compliance was continuous or intermittent;
 - (iv) the method(s) used for determining the compliance status of the source, currently and over the reporting period; and
 - (v) such other facts as the Air Pollution Control Division may require to determine the compliance status of the
- d. All compliance certifications shall be submitted to the Air Pollution Control Division and to the Environmental Protection Agency at the addresses listed in Appendix D of this Permit.
- e. If the permittee is required to develop and register a risk management plan pursuant to § 112(r) of the federal act, the permittee shall certify its compliance with that requirement; the Operating Permit shall not incorporate the contents of the risk management plan as a permit term or condition.

3. Common Provisions

Common Provisions Regulation, 5 CCR 1001-2 §§ II.A., II.B., II.C., II, E., II.F., II.I, and II.J

a. To Control Emissions Leaving Colorado

When emissions generated from sources in Colorado cross the State boundary line, such emissions shall not cause the air quality standards of the receiving State to be exceeded, provided reciprocal action is taken by the receiving State.

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b. Emission Monitoring Requirements

The Division may require owners or operators of stationary air pollution sources to install, maintain, and use instrumentation to monitor and record emission data as a basis for periodic reports to the Division.

c. Performance Testing

The owner or operator of any air pollution source shall, upon request of the Division, conduct performance test(s) and furnish the Division a written report of the results of such test(s) in order to determine compliance with applicable emission control regulations. Performance test(s) shall be conducted and the data reduced in accordance with the applicable reference test methods unless the Division:

specifies or approves, in specific cases, the use of a test method with minor changes in methodology;

approves the use of an equivalent method;

approves the use of an alternative method the results of which the Division has determined to be adequate for indicating where a specific source is in compliance; or

waives the requirement for performance test(s) because the owner or operator of a source has demonstrated by other means to the Division's satisfaction that the affected facility is in compliance with the standard. Nothing in this paragraph shall be construed to abrogate the Commission's or Division's authority to require testing under the Colorado Revised Statutes, Title 25, Article 7 1973, and pursuant to regulations promulgated by the Commission.

Compliance test(s) shall be conducted under such conditions as the Division shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Division such records as may be necessary to determine the conditions of the performance test(s). Operations during period of startup, shutdown, and malfunction shall not constitute representative conditions of performance test(s) unless otherwise specified in the applicable standard.

The owner or operator of an affected facility shall provide the Division thirty days prior notice of the performance test to afford the Division the opportunity to have an observer present. The Division may waive the thirty day notice requirement provided that arrangements satisfactory to the Division are made for earlier testing.

The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows:

- (i) Sampling ports adequate for test methods applicable to such facility,
- (ii) Safe sampling platform(s),
- (iii) Safe access to sampling platform(s).
- (iv) Utilities for sampling and testing equipment.

Each performance test shall consist of at least three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard the arithmetic mean of results of at least three runs shall apply. In the event

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that a sample is accidentally lost or conditions occur in which one of the runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances beyond the owner or operator's control, compliance may, upon the Division's approval, be determined using the arithmetic mean of the results of the two other runs.

Nothing in this section shall abrogate the Division's authority to conduct its own performance test(s) if so warranted.

d. Upset Conditions and Breakdowns

Upset conditions, as defined, shall not be deemed to be in violation of the Colorado regulations, provided that the Division is notified as soon as possible, but no later than two (2) hours after the start of the next working day, followed by a written notice to the Division explaining the cause of the occurrence and that proper action has been or is being taken to correct the conditions causing the violation and to prevent such excess emission in the future.

e. Circumvention Clause

A person shall not build, erect, install, or use any article, machine, equipment, condition, or any contrivance, the use of which, without resulting in a reduction in the total release of air pollutants to the atmosphere, reduces or conceals an emission which would otherwise constitute a violation of this regulation. No person shall circumvent this regulation by using more openings than is considered normal practice by the industry or activity in question.

f. Compliance Certifications

For the purpose of submitting compliance certifications or establishing whether or not a person has violated or is in violation of any standard in the Colorado State Implementation Plan, nothing in the Colorado State Implementation Plan shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed. Evidence that has the effect of making any relevant standard or permit term more stringent shall not be credible for proving a violation of the standard or permit term.

g. Affirmative Defense Provision for Excess Emissions During Startup and Shutdown

An affirmative defense is provided to owners and operators for civil penalty actions for excess emissions during periods of startup and shutdown. To establish the affirmative defense and to be relieved of a civil penalty in any action to enforce an applicable requirement, the owner or operator of the facility must meet the notification requirements below in a timely manner and prove by a preponderance of the evidence that:

The periods of excess emissions that occurred during startup and shutdown were short and infrequent and could not have been prevented through careful planning and design;

The excess emissions were not part of a recurring pattern indicative of inadequate design, operation or maintenance;

If the excess emissions were caused by a bypass (an intentional diversion of control equipment), then the bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

The frequency and duration of operation in startup and shutdown periods were minimized to the maximum extent practicable;

All possible steps were taken to minimize the impact of excess emissions on ambient air quality;

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All emissions monitoring systems were kept in operation (if at all possible);

The owner or operator's actions during the period of excess emissions were documented by properly signed, contemporaneous operating logs or other relevant evidence; and,

At all times, the facility was operated in a manner consistent with good practices for minimizing emissions. This subparagraph is intended solely to be a factor in determining whether an affirmative defense is available to an owner or operator, and shall not constitute an additional applicable requirement.

The owner or operator of the facility experiencing excess emissions during startup and shutdown shall notify the Division verbally as soon as possible, but no later than two (2) hours after the start of the next working day, and shall submit written quarterly notification following the initial occurrence of the excess emissions. The notification shall address the criteria set forth above.

The Affirmative Defense Provision contained in this section shall not be available to claims for injunctive relief.

The Affirmative Defense Provision does not apply to State Implementation Plan provisions or other requirements that derive from new source performance standards (NSPS) or national emissions standards for hazardous air pollutants (NESHAPS), any other federally enforceable performance standard or emission limit with an averaging time greater than twenty-four hours. In addition, an affirmative defense cannot be used by a single source or small group of sources where the excess emissions have the potential to cause an exceedance of the ambient air quality standards or Prevention of Significant Deterioration (PSD) increments.

In making any determination whether a source established an affirmative defense, the Division shall consider the information within the notification required above and any other information the Division deems necessary, which may include, but is not limited to, physical inspection of the facility and review of documentation pertaining to the maintenance and operation of process and air pollution control equipment

4. Compliance Requirements

Regulation No. 3, 5 CCR 1001-5, Part C, §§ III.C.9., V.C.11. & 16.d. and § 25-7-122.1(2), C.R.S.

- a. The permittee must comply with all conditions of the Operating Permit. Any permit noncompliance relating to federally-enforceable terms or conditions constitutes a violation of the federal act, as well as the state act and Regulation No. 3. Any permit noncompliance relating to state-only terms or conditions constitutes a violation of the state act and Regulation No. 3, shall be enforceable pursuant to state law, and shall not be enforceable by citizens under § 304 of the federal act. Any such violation of the federal act, the state act or regulations implementing either statute is grounds for enforcement action, for permit termination, revocation and reissuance or modification or for denial of a permit renewal application.
- b. It shall not be a defense for a permittee in an enforcement action or a consideration in favor of a permittee in a permit termination, revocation or modification action or action denying a permit renewal application that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
- c. The permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of any request by the permittee for a permit modification, revocation and reissuance, or termination, or any notification of planned changes or anticipated noncompliance does not stay any permit condition, except as provided in §§ X. and XI. of

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Regulation No. 3, Part C.

- d. The permittee shall furnish to the Air Pollution Control Division, within a reasonable time as specified by the Division, any information that the Division may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Division copies of records required to be kept by the permittee, including information claimed to be confidential. Any information subject to a claim of confidentiality shall be specifically identified and submitted separately from information not subject to the claim.
- e. Any schedule for compliance for applicable requirements with which the source is not in compliance at the time of permit issuance shall be supplemental, and shall not sanction noncompliance with, the applicable requirements on which it is based.
- f. For any compliance schedule for applicable requirements with which the source is not in compliance at the time of permit issuance, the permittee shall submit, at least every 6 months unless a more frequent period is specified in the applicable requirement or by the Air Pollution Control Division, progress reports which contain the following:
 - (i) dates for achieving the activities, milestones, or compliance required in the schedule for compliance, and dates when such activities, milestones, or compliance were achieved; and
 - (ii) an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- g. The permittee shall not knowingly falsify, tamper with, or render inaccurate any monitoring device or method required to be maintained or followed under the terms and conditions of the Operating Permit.

5. Emergency Provisions

Regulation No. 3, 5 CCR 1001-5, Part C, § VII.

An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed the technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. "Emergency" does not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error. An emergency constitutes an affirmative defense to an enforcement action brought for noncompliance with a technology-based emission limitation if the permittee demonstrates, through properly signed, contemporaneous operating logs, or other relevant evidence that:

- a. an emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. the permitted facility was at the time being properly operated;
- during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- d. the permittee submitted oral notice of the emergency to the Air Pollution Control Division no later than noon of the next working day following the emergency, and followed by written notice within one month of the time when emissions limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

This emergency provision is in addition to any emergency or upset provision contained in any applicable requirement.

6. Emission Standards for Asbestos

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Regulation No. 8, 5 CCR 1001-10, Part B

The permittee shall not conduct any asbestos abatement activities except in accordance with the provisions of Regulation No. 8, Part B, "emission standards for asbestos."

7. Emissions Trading, Marketable Permits, Economic Incentives

Regulation No. 3, 5 CCR 1001-5, Part C, U.C.13.

No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are specifically provided for in the permit.

8. Fee Payment

C.R.S. §§ 25-7-114.1(6) and 25-7-114.7

- a. The permittee shall pay an annual emissions fee in accordance with the provisions of C.R.S. § 25-7-114.7. A 1% per month late payment fee shall be assessed against any invoice amounts not paid in full on the 91st day after the date of invoice, unless a permittee has filed a timely protest to the invoice amount.
- b. The permittee shall pay a permit processing fee in accordance with the provisions of C.R.S. § 25-7-114.7. If the Division estimates that processing of the permit will take more than 30 hours, it will notify the permittee of its estimate of what the actual charges may be prior to commencing any work exceeding the 30 hour limit.
- c. The permittee shall pay an APEN fee in accordance with the provisions of C.R.S. § 25-7-114.1(6) for each APEN or revised APEN filed.

9. Fugitive Particulate Emissions

Regulation No. 1, 5 CCR 1001-3, [] III.D.1.

The permittee shall employ such control measures and operating procedures as are necessary to minimize fugitive particulate emissions into the atmosphere, in accordance with the provisions of Regulation No. 1, \Box III.D.1.

10. Inspection and Entry

Regulation No. 3, 5 CCR 1001-5, Part C, V.C.16.b.

Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Air Pollution Control Division, or any authorized representative, to perform the following:

- a. enter upon the permittee's premises where an Operating Permit source is located, or emissions-related activity is conducted, or where records must be kept under the terms of the permit;
- b. have access to, and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- c. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the Operating Permit;
- d. sample or monitor at reasonable times, for the purposes of assuring compliance with the Operating Permit or applicable requirements, any substances or parameters.

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11. Minor Permit Modifications

Regulation No. 3. 5 CCR 1001-5, Part C. III X. & XI.

The permittee shall submit an application for a minor permit modification before making the change requested in the application. The permit shield shall not extend to minor permit modifications.

12. New Source Review

Regulation No. 3, 5 CCR 1001-5, Part B

The permittee shall not commence construction or modification of a source required to be reviewed under the New Source Review provisions of Regulation No. 3, Part B, without first receiving a construction permit.

13. No Property Rights Conveyed

Regulation No. 3, 5 CCR 1001-5, Part C, V.C.11.d.

This permit does not convey any property rights of any sort, or any exclusive privilege.

14. Odor

Regulation No. 2, 5 CCR 1001-4, Part A

As a matter of state law only, the permittee shall comply with the provisions of Regulation No. 2 concerning odorous emissions.

15. Off-Permit Changes to the Source

Regulation No. 3, 5 CCR 1001-5, Part C, XII.B.

The permittee shall record any off-permit change to the source that causes the emissions of a regulated pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from the change, including any other data necessary to show compliance with applicable ambient air quality standards. The permittee shall provide contemporaneous notification to the Air Pollution Control Division and to the Environmental Protection Agency at the addresses listed in Appendix D of this Permit. The permit shield shall not apply to any off-permit change.

16. Opacity

Regulation No. 1, 5 CCR 1001-3, III I., II.

The permittee shall comply with the opacity emissions limitation set forth in Regulation No. 1, \square I.-II.

17. Open Burning

Regulation No. 9, 5 CCR 1001-11

The permittee shall obtain a permit from the Division for any regulated open burning activities in accordance with provisions of Regulation No. 1, \square II.C.1.

18. Ozone Depleting Compounds

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Regulation No. 15, 5 CCR 1001-17

The permittee shall comply with the provisions of Regulation No. 15 concerning emissions of ozone depleting compounds. Sections I., II.C., II.D., III. IV., and V. of Regulation No. 15 shall be enforced as a matter of state law only.

19. Permit Expiration and Renewal

Regulation No. 3, 5 CCR 1001-5, Part C, IIII.B.6., IV.C., V.C.2.

- a. The permit term shall be five (5) years. The permit shall expire at the end of its term. Permit expiration terminates the permittee's right to operate unless a timely and complete renewal application is submitted.
- b. Applications for renewal shall be submitted at least twelve months, but not more than 18 months, prior to the expiration of the Operating Permit. An application for permit renewal may address only those portions of the permit that require revision, supplementing, or deletion, incorporating the remaining permit terms by reference from the previous permit. A copy of any materials incorporated by reference must be included with the application.

20. Portable Sources

Regulation No. 3, 5 CCR 1001-5, Part C, II.D.

Portable Source permittees shall notify the Air Pollution Control Division at least 10 days in advance of each change in location.

21. Prompt Deviation Reporting

Regulation No. 3, 5 CCR 1001-5, Part C, § V.C.7.b.

The permittee shall promptly report any deviation from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken.

"Prompt" is defined as follows:

- a. Any definition of "prompt" or a specific timeframe for reporting deviations provided in an underlying applicable requirement as identified in this permit; or
- b. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations will be submitted based on the following schedule:
 - (i) For emissions of a hazardous air pollutant or a toxic air pollutant (as identified in the applicable regulation) that continue for more than an hour in excess of permit requirements, the report shall be made within 24 hours of the occurrence:
 - (ii) For emissions of any regulated air pollutant, excluding a hazardous air pollutant or a toxic air pollutant that continue for more than two hours in excess of permit requirements, the report shall be made within 48 hours; and
 - (iii) For all other deviations from permit requirements, the report shall be submitted every six (6) months, except as otherwise specified by the Division in the permit in accordance with paragraph 22.d. below.
- c. If any of the conditions in paragraphs b.i or b.ii above are met, the source shall notify the Division by telephone

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(303-692-3155) or facsimile (303-782-0278) based on the timetables listed above. [Explanatory note: Notification by telephone or facsimile must specify that this notification is a deviation report for an Operating Permit.] A written notice, certified consistent with General Condition 2.a. above (Certification Requirements), shall be submitted within 10 working days of the occurrence. All deviations reported under this section shall also be identified in the 6-month report required above.

"Prompt reporting" does not constitute an exception to the requirements of "Emergency Provisions" for the purpose of avoiding enforcement actions.

22. Record Keeping and Reporting Requirements

Regulation No. 3, 5 CCR 1001-5, Part A, III.; Part C, III V.C.6., V.C.7.

- a. Unless otherwise provided in the source specific conditions of this Operating Permit, the permittee shall maintain compliance monitoring records that include the following information:
 - (i) date, place as defined in the Operating Permit, and time of sampling or measurements;
 - (ii) date(s) on which analyses were performed;
 - (iii) the company or entity that performed the analysis;
 - (iv) the analytical techniques or methods used;
 - (v) the results of such analysis; and
 - (vi) the operating conditions at the time of sampling or measurement.
- b. The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report or application. Support information, for this purpose, includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the Operating Permit. With prior approval of the Air Pollution Control Division, the permittee may maintain any of the above records in a computerized form.
- c. Permittees must retain records of all required monitoring data and support information for the most recent twelve (12) month period, as well as compliance certifications for the past five (5) years on-site at all times. A permittee shall make available for the Air Pollution Control Division's review all other records of required monitoring data and support information required to be retained by the permittee upon 48 hours advance notice by the Division.
- d. The permittee shall submit to the Air Pollution Control Division all reports of any required monitoring at least every six (6) months, unless an applicable requirement, the compliance assurance monitoring rule, or the Division requires submission on a more frequent basis. All instances of deviations from any permit requirements must be clearly identified in such reports.
- e. The permittee shall file an Air Pollutant Emissions Notice ("APEN") prior to constructing, modifying, or altering any facility, process, activity which constitutes a stationary source from which air pollutants are or are to be emitted, unless such source is exempt from the APEN filing requirements of Regulation No. 3, Part A, § II.D. A revised APEN shall be filed annually whenever a significant change in emissions, as defined in Regulation No. 3, Part A, § II.C.2., occurs; whenever there is a change in owner or operator of any facility, process, or activity; whenever new control equipment is installed; whenever a different type of control equipment replaces an existing type of control equipment; whenever a permit limitation must be modified; or before the APEN expires. An APEN is valid for a period of five years. The five-year period recommences when a revised APEN is received by the Air Pollution

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Control Division. Revised APENs shall be submitted no later than 30 days before the five-year term expires. Permittees submitting revised APENs to inform the Division of a change in actual emission rates must do so by April 30 of the following year. Where a permit revision is required, the revised APEN must be filed along with a request for permit revision. APENs for changes in control equipment must be submitted before the change occurs. Annual fees are based on the most recent APEN on file with the Division.

23. Reopenings for Cause

Regulation No. 3, 5 CCR 1001-5, Part C, XIII.

- a. The Air Pollution Control Division shall reopen, revise, and reissue Operating Permits; permit reopenings and reissuance shall be processed using the procedures set forth in Regulation No. 3, Part C, § III., except that proceedings to reopen and reissue permits affect only those parts of the permit for which cause to reopen exists.
- b. The Division shall reopen a permit whenever additional applicable requirements become applicable to a major source with a remaining permit term of three or more years, unless the effective date of the requirements is later than the date on which the permit expires, or unless a general permit is obtained to address the new requirements; whenever additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program; whenever the Division determines the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or whenever the Division determines that the permit must be revised or revoked to assure compliance with an applicable requirement.
- c. The Division shall provide 30 days' advance notice to the permittee of its intent to reopen the permit, except that a shorter notice may be provided in the case of an emergency.
- d. The permit shield shall extend to those parts of the permit that have been changed pursuant to the reopening and reissuance procedure.

24. Section **502(b)(10)** Changes

Regulation No. 3, 5 CCR 1001-5, Part C, XII.A.

The permittee shall provide a minimum 7-day advance notification to the Air Pollution Control Division and to the Environmental Protection Agency at the addresses listed in Appendix D of this Permit. The permittee shall attach a copy of each such notice given to its Operating Permit.

25. Severability Clause

Regulation No. 3, 5 CCR 1001-5, Part C, V.C.10.

In the event of a challenge to any portion of the permit, all emissions limits, specific and general conditions, monitoring, record keeping and reporting requirements of the permit, except those being challenged, remain valid and enforceable.

26. Significant Permit Modifications

Regulation No. 3, 5 CCR 1001-5, Part C, III.B.2.

The permittee shall not make a significant modification required to be reviewed under Regulation No. 3, Part B ("Construction Permit" requirements) without first receiving a construction permit. The permittee shall submit a complete Operating Permit

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application or application for an Operating Permit revision for any new or modified source within twelve months of commencing operation, to the address listed in Item 1 in Appendix D of this permit. If the permittee chooses to use the "Combined Construction/Operating Permit" application procedures of Regulation No. 3, Part C, then the Operating Permit must be received prior to commencing construction of the new or modified source.

27. Special Provisions Concerning the Acid Rain Program

Regulation No. 3, 5 CCR 1001-5, Part C, D V.C.1.b. & 8

- a. Where an applicable requirement of the federal act is more stringent than an applicable requirement of regulations promulgated under Title IV of the federal act, 40 Code of Federal Regulations (CFR) Part 72, both provisions shall be incorporated into the permit and shall be federally enforceable.
- b. Emissions exceeding any allowances that the source lawfully holds under Title IV of the federal act or the regulations promulgated thereunder, 40 CFR Part 72, are expressly prohibited.

28. Transfer or Assignment of Ownership

Regulation No. 3, 5 CCR 1001-5, Part C, III.C.

No transfer or assignment of ownership of the Operating Permit source will be effective unless the prospective owner or operator applies to the Air Pollution Control Division on Division-supplied Administrative Permit Amendment forms, for reissuance of the existing Operating Permit. No administrative permit shall be complete until a written agreement containing a specific date for transfer of permit, responsibility, coverage, and liability between the permittee and the prospective owner or operator has been submitted to the Division.

29. Volatile Organic Compounds

Regulation No. 7, 5 CCR 1001-9, III & V.

a. For sources located in an ozone non-attainment area or the Denver Metro Attainment Maintenance Area, all storage tank gauging devices, anti-rotation devices, accesses, seals, hatches, roof drainage systems, support structures, and pressure relief valves shall be maintained and operated to prevent detectable vapor loss except when opened, actuated, or used for necessary and proper activities (e.g. maintenance). Such opening, actuation, or use shall be limited so as to minimize vapor loss.

Detectable vapor loss shall be determined visually, by touch, by presence of odor, or using a portable hydrocarbon analyzer. When an analyzer is used, detectable vapor loss means a VOC concentration exceeding 10,000 ppm. Testing shall be conducted as in Regulation No. 7, Section VIII.C.3.

Except when otherwise provided by Regulation No. 7, all volatile organic compounds, excluding petroleum liquids, transferred to any tank, container, or vehicle compartment with a capacity exceeding 212 liters (56 gallons), shall be transferred using submerged or bottom filling equipment. For top loading, the fill tube shall reach within six inches of the bottom of the tank compartment. For bottom-fill operations, the inlet shall be flush with the tank bottom.

b. The permittee shall not dispose of volatile organic compounds by evaporation or spillage unless Reasonably Available Control Technology (RACT) is utilized.

30. Wood Stoves and Wood burning Appliances

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Regulation No. 4, 5 CCR 1001-6

The permittee shall comply with the provisions of Regulation No. 4 concerning the advertisement, sale, installation, and use of wood stoves and wood burning appliances.

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OPERATING PERMIT APPENDICES

- A INSPECTION INFORMATION
- **B COMPLIANCE MONITORING REPORT FORMAT**
- C COMPLIANCE CERTIFICATION REPORT FORMAT
- **D-NOTIFICATION ADDRESSES**
- E PERMIT ACRONYMS
- F PERMIT MODIFICATIONS

*DISCLAIMER:

None of the information found in these Appendices shall be considered to be State or Federally enforceable, except as otherwise provided in the permit, and is presented to assist the source, permitting authority, inspectors, and citizens.

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APPENDIX A - Inspection Information

Directions to Plant:

The facility is located in Fruita off of I-70 at 1110 - 16 Road.

Safety Equipment Required:

Eye Protection, Hard Hat and Safety Shoes.

Facility Plot Plan:

Figure 1 (following page) shows the plot plan as submitted on May 1, 1998 with the source's Title V Operating Permit Application.

List of Insignificant Activities:

The following list of insignificant activities was provided by the source to assist in the understanding of the facility layout. Since there is no requirement to update such a list, activities may have changed since the last filing.

Insignificant activities and/or sources of emissions as submitted in the application are as follows:

Analytical Laboratory Equipment
Four (4) natural gas heaters, each < 5MMBtu/hr
Aerosol Can Storage
Chemical Storage Area
Propane Tank, < 60,000 gallons
Fuel Oil # 1 storage tank, < 400,000 gallons
Box gluing operations
Steam vents

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APPENDIX B - Reporting Requirements and Definitions

with codes ver 2/20/07

Please note that, pursuant to 113(c)(2) of the federal Clean Air Act, any person who knowingly:

- (A) makes any false material statement, representation, or certification in, or omits material information from, or knowingly alters, conceals, or fails to file or maintain any notice, application, record, report, plan, or other document required pursuant to the Act to be either filed or maintained (whether with respect to the requirements imposed by the Administrator or by a State);
- (B) fails to notify or report as required under the Act; or
- (C) falsifies, tampers with, renders inaccurate, or fails to install any monitoring device or method required to be maintained or followed under the Act shall, upon conviction, be punished by a fine pursuant to title 18 of the United States Code, or by imprisonment for not more than 2 years, or both. If a conviction of any person under this paragraph is for a violation committed after a first conviction of such person under this paragraph, the maximum punishment shall be doubled with respect to both the fine and imprisonment.

The permittee must comply with all conditions of this operating permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

The Part 70 Operating Permit program requires three types of reports to be filed for all permits. All required reports must be certified by a responsible official.

Report #1: Monitoring Deviation Report (due at least every six months)

For purposes of this operating permit, the Division is requiring that the monitoring reports are due every six months unless otherwise noted in the permit. All instances of deviations from permit monitoring requirements must be clearly identified in such reports.

For purposes of this operating permit, monitoring means any condition determined by observation, by data from any monitoring protocol, or by any other monitoring which is required by the permit as well as the recordkeeping associated with that monitoring. This would include, for example, fuel use or process rate monitoring, fuel analyses, and operational or control device parameter monitoring.

Report #2: Permit Deviation Report (must be reported "promptly")

In addition to the monitoring requirements set forth in the permits as discussed above, each and every requirement of the permit is subject to deviation reporting. The reports must address deviations from permit requirements,

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including those attributable to malfunctions as defined in this Appendix, the probable cause of such deviations, and any corrective actions or preventive measures taken. All deviations from any term or condition of the permit are required to be summarized or referenced in the annual compliance certification.

For purposes of this operating permit, "malfunction" shall refer to both emergency conditions and malfunctions. Additional discussion on these conditions is provided later in this Appendix.

For purposes of this operating permit, the Division is requiring that the permit deviation reports are due as set forth in General Condition 21. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. For example, quarterly Excess Emission Reports required by an NSPS or Regulation No. 1, Section IV.

In addition to the monitoring deviations discussed above, included in the meaning of deviation for the purposes of this operating permit are any of the following:

- (1) A situation where emissions exceed an emission limitation or standard contained in the permit;
- (2) A situation where process or control device parameter values demonstrate that an emission limitation or standard contained in the permit has not been met;
- (3) A situation in which observations or data collected demonstrates noncompliance with an emission limitation or standard or any work practice or operating condition required by the permit; or,
- (4) A situation in which an excursion or exceedance as defined in 40CFR Part 64 (the Compliance Assurance Monitoring (CAM) Rule) has occurred. (only if the emission point is subject to CAM)

For reporting purposes, the Division has combined the Monitoring Deviation Report with the Permit Deviation Report. All deviations shall be reported using the following codes:

1 = Standard: When the requirement is an emission limit or standard

2 = Process: When the requirement is a production/process limit

3 = Monitor: When the requirement is monitoring 4 = Test: When the requirement is testing

5 = Maintenance: When required maintenance is not performed **6 = Record:** When the requirement is recordkeeping

7 = Report: When the requirement is reporting

8 = CAM: A situation in which an excursion or exceedance as defined in 40CFR Part 64 (the Compliance

Assurance Monitoring (CAM) Rule) has occurred.

9 = Other: When the deviation is not covered by any of the above categories

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Report #3: Compliance Certification (annually, as defined in the permit)

Submission of compliance certifications with terms and conditions in the permit, including emission limitations, standards, or work practices, is required not less than annually.

Compliance Certifications are intended to state the compliance status of each requirement of the permit over the certification period. They must be based, at a minimum, on the testing and monitoring methods specified in the permit that were conducted during the relevant time period. In addition, if the owner or operator knows of other material information (i.e. information beyond required monitoring that has been specifically assessed in relation to how the information potentially affects compliance status), that information must be identified and addressed in the compliance certification. The compliance certification must include the following:

- The identification of each term or condition of the permit that is the basis of the certification;
- Whether or not the method(s) used by the owner or operator for determining the compliance status with each permit term and condition during the certification period was the method(s) specified in the permit. Such methods and other means shall include, at a minimum, the methods and means required in the permit. If necessary, the owner or operator also shall identify any other material information that must be included in the certification to comply with section 113(c)(2) of the Federal Clean Air Act, which prohibits knowingly making a false certification or omitting material information;
- The status of compliance with the terms and conditions of the permit, and whether compliance was continuous or intermittent. The certification shall identify each deviation and take it into account in the compliance certification. Note that not all deviations are considered violations.1
- Such other facts as the Division may require, consistent with the applicable requirements to which the source is subject, to determine the compliance status of the source.

The Certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 (the Compliance Assurance Monitoring (CAM) Rule) has occurred. (only for emission points subject to CAM)

Note the requirement that the certification shall identify each deviation and take it into account in the compliance certification. Previously submitted deviation reports, including the deviation report submitted at the time of the annual certification, may be referenced in the compliance certification.

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¹ For example, given the various emissions limitations and monitoring requirements to which a source may be subject, a deviation from one requirement may not be a deviation under another requirement which recognizes an exception and/or special circumstances relating to that same event.

Startup, Shutdown, Malfunctions and Emergencies,

Understanding the application of Startup, Shutdown, Malfunctions and Emergency Provisions, is very important in both the deviation reports and the annual compliance certifications.

Startup, Shutdown, and Malfunctions

Please note that exceedances of some New Source Performance Standards (NSPS) and Maximum Achievable Control Technology (MACT) standards that occur during Startup, Shutdown or Malfunctions may not be considered to be non-compliance since emission limits or standards often do not apply unless specifically stated in the NSPS. Such exceedances must, however, be reported as excess emissions per the NSPS/MACT rules and would still be noted in the deviation report. In regard to compliance certifications, the permittee should be confident of the information related to those deviations when making compliance determinations since they are subject to Division review. The concepts of Startup, Shutdown and Malfunctions also exist for Best Available Control Technology (BACT) sources, but are not applied in the same fashion as for NSPS and MACT sources.

Emergency Provisions

Under the Emergency provisions of Part 70 certain operational conditions may act as an affirmative defense against enforcement action if they are properly reported.

DEFINITIONS

Malfunction (NSPS) means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

Malfunction (SIP) means any sudden and unavoidable failure of air pollution control equipment or process equipment or unintended failure of a process to operate in a normal or usual manner. Failures that are primarily caused by poor maintenance, careless operation, or any other preventable upset condition or preventable equipment breakdown shall not be considered malfunctions.

Emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

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APPENDIX B: Monitoring and Permit Deviation Report - Part I

- 1. Following is the **required** format for the Monitoring and Permit Deviation report to be submitted to the Division as set forth in General Condition 21. The Table below must be completed for all equipment or processes for which specific Operating Permit terms exist.
- 2. Part II of this Appendix B shows the format and information the Division will require for describing periods of monitoring and permit deviations, or malfunction or emergency conditions as indicated in the Table below. One Part II Form must be completed for each Deviation. Previously submitted reports (e.g. EER's or malfunctions) may be referenced and the form need not be filled out in its entirety.

FACILITY NAME: Industrial Insulation Group
OPERATING PERMIT NO: 980PME196
REPORTING PERIOD: ______(see first page of the permit for specific reporting period and dates)

Operating Permit		Deviations noted During Period? ¹		noted During		Deviation Code ²	Malfur /Emerg Cond Reported Perio	gency ition During
Unit ID	Unit Description	YES	NO		YES	NO		
EP001	Babcock and Wilcox FM Natural Gas-Fired Boiler, Maximum Rated At 93.5 MMBtu/hr, SN: 10188B (1987).							
EP002-EP005	Four (4) Midland Ross Natural Gas-Fired Ovens, Maximum Rated at 15.5 MMBtu/hr Each, SN's: Unknown (1977).							
EP006	CalSil Trimmers and Slitters, 500-7 Mod III Baghouse Controlled (1977).							
EP008	Diatomaceous Earth Crushing Area, Wet Collection System Controlled (1982).							
EP009	Xonotlite Trimmers, Sanders and Mix Tank Area, MKRO-Pulsaire Model 221510-20 Baghouse Controlled (1987).							
EP010	Custom Made Natural Gas-Fired High Temperature Test Furnace, Maximum Rated at 6.0 MMBtu/hr, SN: Unknown (1986).							
EP011	CalSil Batch Mixer # 1, Baghouse Controlled (1982).							

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Operating Permit		Deviations noted During Period? ¹		Deviation Code ²	Malfur /Emerg Cond Reported Perio	gency ition During
Unit ID	Unit Description	YES	NO		YES	NO
EP012	Custom Made Fuel Oil # 1-Fired High Temperature Test Furnace, Maximum Rated at 22.0 MMBtu/hr, SN: Unknown (1996).					
EP016	Five Silos, Baghouse Controlled.					
General Conditions						
Insignificant Activities						

¹ See previous discussion regarding what is considered to be a deviation. Determination of whether or not a deviation has occurred shall be based on a reasonable inquiry using readily available information.

1 = Standard: When the requirement is an emission limit or standard

2 = Process: When the requirement is a production/process limit

3 = Monitor: When the requirement is monitoring 4 = Test: When the requirement is testing

5 = Maintenance: When required maintenance is not performed **6 = Record:** When the requirement is recordkeeping

7 = Report: When the requirement is reporting

8 = CAM: A situation in which an excursion or exceedance as defined in 40CFR Part 64 (the Compliance

Assurance Monitoring (CAM) Rule) has occurred.

9 = Other: When the deviation is not covered by any of the above categories

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² Use the following entries, as appropriate

APPENDIX B: Monitoring and Permit Deviation Report - Part II

FACILITY NAME: Industrial Insulation OPERATING PERMIT NO: 980PME196 REPORTING PERIOD:	Group		
Is the deviation being claimed as an: (For NSPS/MACT) Did the deviation occur during:	Emergency Startup Normal Operation	Malfunction Shutdown	N/A Malfunction
OPERATING PERMIT UNIT IDENTIFICATION:	:		
Operating Permit Condition Number Citation			
Explanation of Period of Deviation			
Duration (start/stop date & time)			
Action Taken to Correct the Problem			
Measures Taken to Prevent a Reoccurrence of the F	<u>Problem</u>		
Dates of Malfunctions/Emergencies Reported (if ap	p <u>plicable)</u>		
Deviation Code	Division Code QA:		
SEE EXAMPL	E ON THE NEXT	PAGE	

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EXAMPLE

OPERATING PERMIT NO:				
REPORTING PERIOD:	1/1/04 - 6/30/06			
Is the deviation being claimed	d as an:	Emergency	Malfunction _	XX N/A
(For NSPS/MACT) Did the d	leviation occur during:	Startup	Shutdown	Malfunction
OPERATING PERMIT UNI	T IDENTIFICATION:	Normal Operation		
Asphalt Plant with a Scrubbe	r for Particulate Contro	l - Unit XXX		
Operating Permit Condition 1	Number Citation			
Section II, Condition 3.1 - Op	pacity Limitation			
Explanation of Period of Dev	riation			
Slurry Line Feed Plugged				
<u>Duration</u>				
START- 1730 4/10/06 END- 1800 4/10/06				
Action Taken to Correct the I	<u>Problem</u>			
Line Blown Out				
Measures Taken to Prevent R	Reoccurrence of the Pro	<u>blem</u>		
Replaced Line Filter				
Dates of Malfunction/Emerge	encies Reported (if app	licable)		
5/30/06 to A. Einstein, APCI				
Deviation Code		Division Code QA:		

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permit. No copies need be sent to the U.S. EPA.

APPENDIX B: Monitoring and Permit Deviation Report - Part III

REPORT CERTIFICATION

SOURCE NAME: Industrial Insulation Group	
FACILITY IDENTIFICATION NUMBER: 07700	23
PERMIT NUMBER: 980PME196	
REPORTING PERIOD: (see fi	rst page of the permit for specific reporting period and dates)
	ation Reports must be certified by a responsible official as a sion I.B.38. This signed certification document must be
STATEMENT OF COMPLETENESS	
formed after reasonable inquiry, I certify that the are true, accurate and complete. Please note that the Colorado Statutes state that 1-501(6), C.R.S., makes any false material stater	d in its entirety and, based on information and belief he statements and information contained in this submittal any person who knowingly, as defined in Sub-Section 18ment, representation, or certification in this document is accordance with the provisions of Sub-Section 25-7
Printed or Typed Name	Title
Cianatana di Dana (111 Offi	in Data Cinand
Signature of Responsible Offic	ial Date Signed
Note: Deviation reports shall be submitted to the	e Division at the address given in Appendix D of this

APPENDIX C - Required Format for Annual Compliance Certification Report

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Following is the format for the Compliance Certification report to be submitted to the Division and the U.S. EPA annually based on the effective date of the permit. The Table below must be completed for all equipment or processes for which specific Operating Permit terms exist.

FACILITY NAME: Industrial Insulation Group

OPERATING PERMIT NO: 980PME196

REPORTING PERIOD:

I. Facility Status

____ During the entire reporting period, this source was in compliance with **ALL** terms and conditions contained in the Permit, each term and condition of which is identified and included by this reference. The method(s) used to determine compliance is/are the method(s) specified in the Permit.

With the possible exception of the deviations identified in the table below, this source was in compliance with all terms and conditions contained in the Permit, each term and condition of which is identified and included by this reference, during the entire reporting period. The method used to determine compliance for each term and condition is the method specified in the Permit, unless otherwise indicated and described in the deviation report(s). Note that not all deviations are considered violations.

Operating Permit Unit ID	Unit Description	Deviations Reported ¹		Monitoring Method per Permit? ²		Was compliance continuous or intermittent? ³	
115		Previou s	Current	YES	NO	Continuous	Intermittent
EP001	Babcock and Wilcox FM Natural Gas-Fired Boiler, Maximum Rated At 93.5 MMBtu/hr, SN: 10188B (1987).						
EP002-EP005	Four (4) Midland Ross Natural Gas-Fired Ovens, Maximum Rated at 15.5 MMBtu/hr Each, SN's: Unknown (1977).						
	CalSil Trimmers and						

Operating Permit Number: 980PME196 First Issued: 12/1/99

Operating Permit Unit ID	Unit Description	Deviations Reported ¹		Monitoring Method per Permit? ²		Was compliance continuous or intermittent? ³	
ID		Previou s	Current	YES	NO	Continuous	Intermittent
EP006	Slitters, 500-7 Mod III Baghouse Controlled (1977).						
EP008	Diatomaceous Earth Crushing Area, Wet Collection System Controlled (1982).						
EP009	Xonotlite Trimmers, Sanders and Mix Tank Area, MKRO-Pulsaire Model 221510-20 Baghouse Controlled (1987).						
EP010	Custom Made Natural Gas-Fired High Temperature Test Furnace, Maximum Rated at 6.0 MMBtu/hr, SN: Unknown (1986).						
EP011	CalSil Batch Mixer # 1, Baghouse Controlled (1982).						
EP012	Custom Made Fuel Oil # 1-Fired High Temperature Test Furnace, Maximum Rated at 22.0 MMBtu/hr, SN: Unknown (1996).						
EP016	Five Silos, Baghouse Controlled.						
General Conditions							
Insignificant Activities ⁴							

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NOTE:

The Periodic Monitoring requirements of the Operating Permit program rule are intended to provide assurance that even in the absence of a continuous system of monitoring the Title V source can demonstrate whether it has operated in continuous compliance for the duration of the reporting period. Therefore, if a source 1) conducts all of the monitoring and recordkeeping required in its permit, even if such activities are done periodically and not continuously, and if 2) such monitoring and recordkeeping does not indicate non-compliance, and if 3) the Responsible Official is not aware of any credible evidence that indicates non-compliance, then the Responsible Official can certify that the emission point(s) in question were in continuous compliance during the applicable time period.

⁴Compliance status for these sources shall be based on a reasonable inquiry using readily available information.

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¹ If deviations were noted in a previous deviation report, put an "X" under "previous". If deviations were noted in the current deviation report (i.e. for the last six months of the annual reporting period), put an "X" under "current". Mark both columns if both apply.

² Note whether the method(s) used to determine the compliance status with each term and condition was the method(s) specified in the permit. If it was not, mark "no" and attach additional information/explanation.

³ Note whether the compliance status with of each term and condition provided was continuous or intermittent. "Intermittent Compliance" can mean either that noncompliance has occurred or that the owner or operator has data sufficient to certify compliance only on an intermittent basis. Certification of intermittent compliance therefore does not necessarily mean that any noncompliance has occurred.

II.	Status	for Acc	idental Release Pre	vention Pro	ogram:		
	A.						et to the provisions of the Accidental eral Clean Air Act)
	В.		ect: The facility		is	is	not in compliance with all the
III.	Certifi	1.					has been submitted to the tral location by the required date.
Colora	ido Reg	ulation l					ified by a responsible official as defined in ication document must be packaged with
reasor	nable in		I certify that the st	-			rmation and belief formed after contained in this certification are true,
C.R.S	., make	s any fa	alse material staten	nent, repr	esentatio	n, or cer	knowingly, as defined in § 18-1-501(6), tification in this document is guilty of a ions of § 25-7 122.1, C.R.S.
		Printed	d or Typed Name			Title	
Nor			ignature	Date S	U		
NUTE	تا All c	ompliano	ce certifications sha	iii be subm	itted to th	ie Air Po	llution Control Division and to the

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Environmental Protection Agency at the addresses listed in Appendix D of this Permit.

APPENDIX D - Notification Addresses

1. **Air Pollution Control Division**

Colorado Department of Public Health and Environment Air Pollution Control Division Operating Permits Unit APCD-SS-B1 4300 Cherry Creek Drive S. Denver, CO 80246-1530

ATTN: Jim King

2. United States Environmental Protection Agency

Compliance Notifications:

Office of Enforcement, Compliance and Environmental Justice Mail Code 8ENF-T U.S. Environmental Protection Agency, Region VIII 1595 Wynkoop Street Denver, CO 80202-1129

Permit Modifications, Off Permit Changes:

Office of Partnerships and Regulatory Assistance and Air and Radiation Programs, 8P-AR U.S. Environmental Protection Agency, Region VIII 1595 Wynkoop Street Denver, CO 80202-1129

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APPENDIX E - Permit Acronyms

Listed Alphabetically:

MMscf -

NOx -

MMscfd -

N/A or NA -

	netric Information Retrieval System
AP-42 -	EPA Document Compiling Air Pollutant Emission Factors
APEN -	Air Pollution Emission Notice (State of Colorado)
APCD -	Air Pollution Control Division (State of Colorado)
ASTM -	American Society for Testing and Materials
BACT -	Best Available Control Technology
BTU -	British Thermal Unit
CAA -	Clean Air Act (CAAA = Clean Air Act Amendments)
CCR -	Colorado Code of Regulations
CEM -	Continuous Emissions Monitor
CF -	Cubic Feet (SCF = Standard Cubic Feet)
CFR -	Code of Federal Regulations
CO -	Carbon Monoxide
COM -	Continuous Opacity Monitor
CRS -	Colorado Revised Statute
EF -	Emission Factor
EPA -	Environmental Protection Agency
FI -	Fuel Input Rate in Lbs/mmBtu
FR -	Federal Register
G -	Grams
Gal -	Gallon
GPM -	Gallons per Minute
HAPs -	Hazardous Air Pollutants
HP -	Horsepower
HP-HR -	Horsepower Hour (G/HP-HR = Grams per Horsepower Hour)
LAER -	Lowest Achievable Emission Rate
LBS -	Pounds
M -	Thousand
MM -	Million

NESHAP - National Emission Standards for Hazardous Air Pollutants

Million Standard Cubic Feet per Day

Million Standard Cubic Feet

Not Applicable

Nitrogen Oxides

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NSPS -	New Source Performance Standards
P -	Process Weight Rate in Tons/Hr
PE -	Particulate Emissions
PM -	Particulate Matter
PM_{10} -	Particulate Matter Under 10 Microns
PSD -	Prevention of Significant Deterioration
PTE -	Potential To Emit
RACT -	Reasonably Available Control Technology
SCC -	Source Classification Code
SCF -	Standard Cubic Feet
SIC -	Standard Industrial Classification
SO ₂ -	Sulfur Dioxide
TPY -	Tons Per Year
TSP -	Total Suspended Particulate
VOC -	Volatile Organic Compounds

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APPENDIX F - Permit Modifications

DATE OF REVISION	TYPE OF REVISION	SECTION NUMBER, CONDITION NUMBER	DESCRIPTION OF REVISION

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